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OM protein - protein search, using sw model

Run on: November 2, 2004, 12:59:33 ; Search time 39 Seconds
(without alignments)
406.410 Million cell updates/sec

Title: US-09-887-784-4-X64-X222
Perfect score: 1267
Sequence: 1 MVSXGEELFTGVVPLVELD.....VLXGFVTAAGITLGMDELYK 239

Scoring table: BLOSUM62DX
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 478139

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_AA*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
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5: /cgn2_6/ptodata/1/iaa/BCBUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES:

Result No.	Score	Query Match	Length	ID	Description
1	1256	99.1	239	US-09-172-063-3	Sequence 3, Appli
2	1256	99.1	239	US-09-513-783A-46	Sequence 46, Appli
3	1256	99.1	239	US-09-316-919-4	Sequence 4, Appli
4	1256	99.1	239	US-09-602-641-3	Sequence 3, Appli
5	1256	99.1	239	US-09-920-922-2	Sequence 2, Appli
6	1256	99.1	239	US-09-316-920A-4	Sequence 4, Appli
7	1256	99.1	239	US-09-430-656-46	Sequence 46, Appli
8	1256	99.1	281	US-09-062-102-1	Sequence 1, Appli
9	1256	99.1	281	US-09-364-946-1	Sequence 1, Appli
10	1256	99.1	294	US-09-513-783A-2	Sequence 2, Appli
11	1256	99.1	294	US-09-430-656-2	Sequence 2, Appli
12	1256	99.1	323	US-09-172-063-21	Sequence 21, Appli
13	1256	99.1	323	US-09-602-641-21	Sequence 21, Appli
14	1256	99.1	364	US-09-085-305-6	Sequence 6, Appli
15	1256	99.1	379	US-09-417-197-129	Sequence 129, App
16	1256	99.1	434	US-09-800-170-48	Sequence 48, Appli
17	1256	99.1	442	US-09-417-197-127	Sequence 127, App
18	1256	99.1	459	US-09-513-783A-170	Sequence 170, App
19	1256	99.1	544	US-09-417-197-113	Sequence 113, App
20	1256	99.1	544	US-09-417-197-115	Sequence 115, App
21	1256	99.1	604	US-09-417-197-59	Sequence 59, Appli
22	1256	99.1	605	US-09-417-197-41	Sequence 41, Appli
23	1256	99.1	606	US-09-417-197-65	Sequence 65, Appli
24	1256	99.1	607	US-09-417-197-47	Sequence 47, Appli
25	1256	99.1	630	US-09-417-197-63	Sequence 63, Appli
26	1256	99.1	631	US-09-417-197-39	Sequence 39, Appli
27	1256	99.1	633	US-09-417-197-45	Sequence 45, Appli

ALIGNMENTS

RESULT 1

US-09-172-063-3
; Sequence 3, Application US/09172063
; Patent No. 6150176
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Llopis, Juan
; APPLICANT: Wachter, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE
; FILE REFERENCE: 07257/071001
; CURRENT APPLICATION NUMBER: US/09/172,063
; CURRENT FILING DATE: 1998-10-13
; EARLIER APPLICATION NUMBER: 09/094,359
; EARLIER FILING DATE: 1998-06-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: EGFP
US-09-172-063-3

Query Match 99.1%; Score 1256; DB 3; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Qy	61	LVTXLSYGVQCFSRYPDHMKQHDFFKSAHPGYVQERTIFFKDDGNKYKTRAEVKEGDTL	120
Db	61	LVTXLSYGVQCFSRYPDHMKQHDFFKSAHPGYVQERTIFFKDDGNKYKTRAEVKEGDTL	120
Qy	121	VNRIELKIDPKEDGNILGHKLEYNHSHNYIIMADKOKNGIKVNFKIRHNIEDGVSQLA	180
Db	121	VNRIELKIDPKEDGNILGHKLEYNHSHNYIIMADKOKNGIKVNFKIRHNIEDGVSQLA	180
Qy	181	DHYOQNTPIGDPVLLPDNHYLSTQSALSQDPNEKRDHMLXGFTVTAAGITLGMDELYK	239
Db	181	DHYOQNTPIGDPVLLPDNHYLSTQSALSQDPNEKRDHMLXGFTVTAAGITLGMDELYK	239

QY 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239

RESULT 4
US-09-602-641-3
; Sequence 3, Application US/09602641
; Patent No. 6608189
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Llopis, Juan
; APPLICANT: Wachter, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE
; FILE REFERENCE: 07257/071001
; CURRENT APPLICATION NUMBER: US/09/602,641
; CURRENT FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: 09/172,063
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)..(0)
; OTHER INFORMATION: EGFP
US-09-602-641-3

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPIILVELDGVNGHKFSVSGEGDATYKLTAKFICTTGKLPVWPWT 60
DB 1 MVSKEELFTGVVPIILVELDGVNGHKFSVSGEGDATYKLTAKFICTTGKLPVWPWT 60
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
QY 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239

RESULT 5
US-09-920-922-2
; Sequence 2, Application US/09920922.
; Patent No. 6673610
; GENERAL INFORMATION:
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Sawano, Asako
; TITLE OF INVENTION: METHOD FOR MUTAGENESIS
; FILE REFERENCE: 11283-012001
; CURRENT APPLICATION NUMBER: US/09/920,922
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: JP 2000-237166
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 9

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QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239

RESULT 4
US-09-513-783A-46
; Sequence 46, Application US/09513783A
; Patent No. 6418959
; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.
; APPLICANT: Kapur, Ravi
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-L1
; CURRENT APPLICATION NUMBER: US/09/513,783A
; CURRENT FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 46
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: EGFP
US-09-513-783A-46

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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DB 1 MVSKEELFTGVVPIILVELDGVNGHKFSVSGEGDATYKLTAKFICTTGKLPVWPWT 60
QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
QY 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTAAAGITLGMDELYK 239

RESULT 3
US-09-316-919-4
; Sequence 4, Application US/09316919
; Patent No. 6469154
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: 07257/073001 US/09/316,919
; CURRENT APPLICATION NUMBER: US/09/316,919
; CURRENT FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-316-919-4

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPIILVELDGVNGHKFSVSGEGDATYKLTAKFICTTGKLPVWPWT 60
DB 1 MVSKEELFTGVVPIILVELDGVNGHKFSVSGEGDATYKLTAKFICTTGKLPVWPWT 60
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-920-922-2

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MVSKEELFTGVVPLVDELGVNGHKFSVSGEGEDATYKGLTLKFTCTTGKLPVPWPT 60

QY 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
DB 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180

QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 6
US-09-316-920A-4
; Sequence 4, Application US/09316920A
; Patent No. 6699687
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: REGEN1470
; CURRENT APPLICATION NUMBER: US/09/316,920A
; CURRENT FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-316-920A-4

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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QY 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
DB 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180

QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 7
US-09-430-656-46
; Sequence 46, Application US/09430656
; Patent No. 6756207

; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.
; APPLICANT: Bright, Gary
; APPLICANT: Olson, Keith
; APPLICANT: Burroughs-Tencza, Sarah
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-K
; CURRENT APPLICATION NUMBER: US/09/430,656
; CURRENT FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/398,965
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 09/031,271
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: 08/810,983
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: 60/136,078
; PRIOR FILING DATE: 1999-05-26
; PRIOR APPLICATION NUMBER: 60/106,308
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 46
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: EGFP
US-09-430-656-46

Query Match 99.1%; Score 1256; DB 4; Length 239;
Best Local Similarity 98.3%; Pred. No. 1.1e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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DB 1 MVSKEELFTGVVPLVDELGVNGHKFSVSGEGEDATYKGLTLKFTCTTGKLPVPWPT 60

QY 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 61 LVTLSYGVQCFSRYPDMHKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
DB 121 VNRIELKGIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180

QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 8
US-09-062-102-1
; Sequence 1, Application US/09062102
; Patent No. 6130313
; GENERAL INFORMATION:
; APPLICANT: Kain, Steve
; APPLICANT: Li, Xianqiang
; TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods
; TITLE OF INVENTION: of Use
; FILE REFERENCE: D6100
; CURRENT APPLICATION NUMBER: US/09/062,102
; CURRENT FILING DATE: 1998-04-17
; EARLIER APPLICATION NUMBER: US 60/060,855
; EARLIER FILING DATE: 1997-10-02
; NUMBER OF SEQ ID NOS: 3
; SEQ ID NO.1
; LENGTH: 281
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence of the EGFP-MODC422-461 fusion protein.
; Patent No. 6130313
US-09-062-102-1

us-09-887-784-4-x64-x222.dx.rai

Wed Nov 3 10:00:04 2004

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; APPLICANT: Kapur, Ravi
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-LI
; CURRENT APPLICATION NUMBER: US/09/513,783A
; CURRENT FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: GFP-DEVD-Annexin II construct
; US-09-513-783A-2

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Query Match          99.1%; Score 1256; DB 4; Length 294;
Best Local Similarity 98.3%; Pred. No. 1.6e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Db 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60
   |||||
QY 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKFEGDTL 120
   |||||
Db 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKFEGDTL 120
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QY 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
   |||||
Db 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
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QY 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
   |||||
Db 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
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RESULT 11
US-09-430-656-2
; Sequence 2, Application US/09430656
; Patent No. 6756207
; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.
; APPLICANT: Bright, Gary
; APPLICANT: Olson, Keith
; APPLICANT: Burroughs-Tencza, Sarah
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-K
; CURRENT APPLICATION NUMBER: US/09/430,656
; CURRENT FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 09/398,965
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 09/031,271
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: 08/810,983
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: 60/136,078
; PRIOR FILING DATE: 1999-05-26
; PRIOR APPLICATION NUMBER: 60/106,308
; PRIOR FILING DATE: 1998-10-30
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: GFP-DEVD-Annexin II construct
; US-09-430-656-2

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Query Match          99.1%; Score 1256; DB 4; Length 294;
Best Local Similarity 98.3%; Pred. No. 1.6e-123;

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Query Match          99.1%; Score 1256; DB 3; Length 281;
Best Local Similarity 98.3%; Pred. No. 1.5e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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Db 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60
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   |||||
Db 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKFEGDTL 120
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QY 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
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Db 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
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QY 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
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Db 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
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RESULT 9
US-09-364-946-1
; Sequence 1, Application US/09364946
; Patent No. 6306600
; GENERAL INFORMATION:
; APPLICANT: Kain, Steve
; APPLICANT: Li, Xianqiang
; TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods
; FILE REFERENCE: D6100CIP/D2
; CURRENT APPLICATION NUMBER: US/09/364,946
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: US 09/191,233
; EARLIER FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 1
; LENGTH: 281
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence of the EGFP-MODC422-461 fusion protein.
; Patent No. 6306600
; US-09-364-946-1

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Query Match          99.1%; Score 1256; DB 3; Length 281;
Best Local Similarity 98.3%; Pred. No. 1.5e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60
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Db 1 MVSKEELFTGVVPIILVELDGVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPMPT 60
   |||||
QY 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKFEGDTL 120
   |||||
Db 61 LVTXLSYGVQCFRYPDHMKQHDFFKSAMPEGVVOERTIFFKDDGNYKTRAEVKFEGDTL 120
   |||||
QY 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
   |||||
Db 121 VNRIELKGIDFKEDGNILGHKLEYNHNHVMADKQNGIKVNFKIRHNIEDGSVQLA 180
   |||||
QY 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
   |||||
Db 181 DHVQONTPIGDGPVLLPDNHYLSTQSALSADPNKRDHMLVGLGFVTAAGITLGMDELYK 239
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RESULT 10
US-09-513-783A-2
; Sequence 2, Application US/09513783A
; Patent No. 6416959
; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 2, 2004, 13:08:24 ; Search time 130 Seconds

(without alignments)

596.058 Million cell updates/sec

Title: US-09-887-784-4-X64-X222

Perfect score: 1267

Sequence: 1 MVSKGEELFTGVPIVLDVNGHFKFSVSGEGDATYKGLTLKFTCTTGKLPVPWPT 239

Scoring table: BLOSUM62DX

Gapop 10.0 , Gapext 0.5

Searched: 1370721 seqs, 324215800 residues

Total number of hits satisfying chosen parameters: 1370721

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*

2: /cgn2_6/ptodata/1/pubpaa/US06_PCT_NEW_PUB.pep.*

3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*

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5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*

6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*

7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*

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10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*

11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*

12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*

13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*

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16: /cgn2_6/ptodata/1/pubpaa/US10D_PUBCOMB.pep.*

17: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*

18: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*

19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1267	100.0	239	9	US-09-887-784-4
2	1267	100.0	239	15	US-10-296-953-4
3	1267	100.0	239	14	US-10-270-223-6
4	1267	100.0	893	14	US-10-257-909A-30
5	1267	100.0	1132	14	US-10-257-909A-32
6	1259	99.4	239	9	US-09-887-784-2
7	1259	99.4	239	15	US-10-296-953-2
8	1256	99.1	239	9	US-09-920-922-2
9	1256	99.1	239	9	US-09-999-745-4
10	1256	99.1	239	10	US-09-866-538-4
11	1256	99.1	239	10	US-09-797-4968-2
12	1256	99.1	239	10	US-09-794-308-4
13	1256	99.1	239	10	US-09-865-291-4

14	1256	99.1	239	14	US-10-121-258-13	Sequence 13, Appl
15	1256	99.1	239	14	US-10-221-461-7	Sequence 7, Appl
16	1256	99.1	239	14	US-10-100-957A-46	Sequence 46, Appl
17	1256	99.1	239	14	US-10-177-390-2	Sequence 2, Appl
18	1256	99.1	239	14	US-10-338-411-3	Sequence 3, Appl
19	1256	99.1	239	14	US-10-457-982-3	Sequence 3, Appl
20	1256	99.1	239	14	US-10-370-570-4	Sequence 4, Appl
21	1256	99.1	239	15	US-10-389-640-3	Sequence 3, Appl
22	1256	99.1	239	16	US-10-724-178-3	Sequence 3, Appl
23	1256	99.1	259	14	US-10-314-861-11	Sequence 11, Appl
24	1256	99.1	265	16	US-10-706-763-4	Sequence 4, Appl
25	1256	99.1	281	9	US-09-931-232-1	Sequence 1, Appl
26	1256	99.1	288	14	US-10-314-861-37	Sequence 37, Appl
27	1256	99.1	294	14	US-10-314-861-35	Sequence 35, Appl
28	1256	99.1	294	14	US-10-100-957A-2	Sequence 2, Appl
29	1256	99.1	295	14	US-10-314-861-39	Sequence 39, Appl
30	1256	99.1	299	14	US-10-314-861-33	Sequence 33, Appl
31	1256	99.1	305	14	US-10-314-861-31	Sequence 31, Appl
32	1256	99.1	308	14	US-10-033-717-35	Sequence 35, Appl
33	1256	99.1	311	14	US-10-314-861-29	Sequence 29, Appl
34	1256	99.1	320	14	US-10-338-411-11	Sequence 11, Appl
35	1256	99.1	320	15	US-10-389-640-11	Sequence 11, Appl
36	1256	99.1	323	14	US-10-338-411-7	Sequence 7, Appl
37	1256	99.1	323	14	US-10-338-411-13	Sequence 13, Appl
38	1256	99.1	323	14	US-10-457-982-21	Sequence 21, Appl
39	1256	99.1	323	15	US-10-389-640-7	Sequence 7, Appl
40	1256	99.1	323	15	US-10-389-640-13	Sequence 13, Appl
41	1256	99.1	324	14	US-10-314-861-16	Sequence 16, Appl
42	1256	99.1	345	14	US-10-338-411-5	Sequence 5, Appl
43	1256	99.1	345	15	US-10-389-640-5	Sequence 5, Appl
44	1256	99.1	346	14	US-10-338-411-9	Sequence 9, Appl
45	1256	99.1	346	15	US-10-389-640-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1

US-09-887-784-4

; Sequence 4, Application US/09887784

; Patent No. US2002017189A1

; GENERAL INFORMATION:

; APPLICANT: BJORN, Sara et al

; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS

; FILE REFERENCE: 3759-0115P

; CURRENT APPLICATION NUMBER: US/09/887,784

; CURRENT FILING DATE: 2001-06-19

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 4

; LENGTH: 239

; TYPE: PPT

; ORGANISM: Aequoria Victoria

US-09-887-784-4

Query Match	100.0%	Score 1267;	DB 9;	Length 239;
Best Local Similarity	99.2%	Pred. No. 2.7e-112;		
Matches 237;	Conservative	2;	Mismatches 0;	Indels 0; Gaps 0;
Qy	1	MVSKGEELFTGVPIVLDVNGHFKFSVSGEGDATYKGLTLKFTCTTGKLPVPWPT	60	
Db	1	MVSKGEELFTGVPIVLDVNGHFKFSVSGEGDATYKGLTLKFTCTTGKLPVPWPT	60	
Qy	61	LVTVLSVGVQCFSPYDPHMKOHDFFKSAHPGYVQERTIFFKDDGNYKTRAEVKFEGDTL	120	
Db	61	LVTVLSVGVQCFSPYDPHMKOHDFFKSAHPGYVQERTIFFKDDGNYKTRAEVKFEGDTL	120	
Qy	121	VNRLELKGIDFKEDGNILGHKLEYNNSHNHYIIVADKQKNGIKVNFKIRHNIEDGSVQLA	180	
Db	121	VNRLELKGIDFKEDGNILGHKLEYNNSHNHYIIVADKQKNGIKVNFKIRHNIEDGSVQLA	180	
Qy	181	DHYQNTPTIGDPVLLPDPNHVLSYTSQALSQPNKRDHMLXGFTAAIGTLMDELYK	239	
Db	181	DHYQNTPTIGDPVLLPDPNHVLSYTSQALSQPNKRDHMLXGFTAAIGTLMDELYK	239	

Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 2

US-10-296-953-4

; Sequence 4, Application US/10296953

; Publication No. US20040072995A1

; GENERAL INFORMATION:

; APPLICANT: BJORN, SARA P.

; APPLICANT: PAGLIARO, LEN

; APPLICANT: THASTRUP, OLE

; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS

; FILE REFERENCE: PL0095

; CURRENT APPLICATION NUMBER: US/10/296,953

; CURRENT FILING DATE: 2002-11-26

; PRIOR APPLICATION NUMBER: PA 2000 00953

; PRIOR FILING DATE: 2000-06-19

; PRIOR APPLICATION NUMBER: 60/212,681

; PRIOR FILING DATE: 2000-06-20

; PRIOR APPLICATION NUMBER: 60/290,170

; PRIOR FILING DATE: 2001-05-10

; PRIOR APPLICATION NUMBER: PA 2001 00739

; PRIOR FILING DATE: 2001-05-10

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 4

; LENGTH: 239

; TYPE: PRT

; ORGANISM: Aequorea victoria

US-10-296-953-4

Query Match 100.0%; Score 1267; DB 15; Length 239;

Best Local Similarity 99.2%; Pred. No. 2.7e-112;

Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Db 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 120

Db 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 120

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 3

US-10-270-223-6

; Sequence 6, Application US/10270223

; Publication No. US20030143634A1

; GENERAL INFORMATION:

; APPLICANT: BioImage A/S

; TITLE OF INVENTION: AN IMPROVED METHOD TO DETECT INTERACTIONS BETWEEN CELLULAR COMPOUNDS

; TITLE OF INVENTION: INTERACTING LIVING CELLS, AND TO EXTRACT QUANTITATIVE INFORMATION FROM

; TITLE OF INVENTION: INTERACTIONS BY FLUORESCENCE REDISTRIBUTION.

; FILE REFERENCE: 3759-0126P

; CURRENT APPLICATION NUMBER: US/10/270,223

; CURRENT FILING DATE: 2002-10-11

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 6

; LENGTH: 363

; TYPE: PRT

; ORGANISM: Aequorea Victoria and Human

US-10-270-223-6

Query Match 100.0%; Score 1267; DB 14; Length 363;

Best Local Similarity 99.2%; Pred. No. 4.8e-112;

Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Db 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 120

Db 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 120

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

RESULT 4

US-10-257-909A-30

; Sequence 30, Application US/10257909A

; Publication No. US20030187056A1

; GENERAL INFORMATION:

; APPLICANT: Bernard R. TERRY et al.

; TITLE OF INVENTION: Live cell procedures to identify compounds modulating intracellular

; TITLE OF INVENTION: distribution of phosphodiesterase (PDE) enzymes

; FILE REFERENCE: 3759-0125P

; CURRENT APPLICATION NUMBER: US/10/257,909A

; CURRENT FILING DATE: 2002-10-17

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 30

; LENGTH: 893

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Fusion between Aequorea victoria and human

US-10-257-909A-30

Query Match 100.0%; Score 1267; DB 14; Length 893;

Best Local Similarity 99.2%; Pred. No. 1.7e-111;

Matches 237; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 60

Db 655 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGDGYKLTILKFICTTGKLPVPWPT 714

Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 120

Db 715 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGVVQERTIFFKDDGNYKTRAEVKEGDTL 774

Qy 121 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 180

Db 775 VNRLELKGIDFKEDGNILGHKLEYNNSHNVIMADKQNGIKVNFKIRHNIEDGSVOLA 834

Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 239

Db 835 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK 893

RESULT 5

US-10-257-909A-32

; Sequence 32, Application US/10257909A

; Publication No. US20030187056A1

; GENERAL INFORMATION:

; APPLICANT: Bernard R. TERRY et al.

; TITLE OF INVENTION: Live cell procedures to identify compounds modulating intracellular

; TITLE OF INVENTION: distribution of phosphodiesterase (PDE) enzymes

; FILE REFERENCE: 3759-0125P

; CURRENT APPLICATION NUMBER: US/10/257,909A

; CURRENT FILING DATE: 2002-10-17

Matches	235;	Conservative	3;	Mismatches	1;	Indels	0;	Gaps	0;
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Db	1	MVSGBELFTGVVPILVELGDVNGVNHKFSVSGEGEDATYKGLTLKFICTTGKLPVPWPT	60						
Qy	61	LVTKLSGVQCFSRYPDHMKQHDFFKSAHPGYYQVERTIFFKDGNGYKTRAEVKFGDTL	120						
Db	61	LVTTLTGVQCFSRYPDHMKQHDFFKSAHPGYYQVERTIFFKDGNGYKTRAEVKFGDTL	120						
Qy	121	VNRIELKGI DFKEDGNILGHKLEYNASHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLA	180						
Db	121	VNRIELKGI DFKEDGNILGHKLEYNASHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLA	180						
Qy	181	DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRHDHWLXGFVTAAGITGLHDELYK	239						
Db	181	DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRHDHWLLEFVTAAGITGLHDELYK	239						

RESULT 12

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US-09-172-063-21
; Sequence 21, Application US/09172063
; Patent No. 6150176
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Llopis, Juan
; APPLICANT: Wachter, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE
; FILE REFERENCE: 07257/071001
; CURRENT APPLICATION NUMBER: US/09/172.063
; CURRENT FILING DATE: 1998-10-13
; EARLIER APPLICATION NUMBER: 09/094,359
; EARLIER FILING DATE: 1998-06-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)..(0)
; OTHER INFORMATION: GT-EGFP
US-09-172-063-21

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OTHER INFORMATION
US-09-172-063-21

Query Match	99.1%	Score 1256;	DB 3;	Length 323;
Best Local Similarity	98.3%;	Pred. No. 1.8e-123;		
Matches 235;	Conservative 3;	Mismatches 1;	Indels 0;	Gaps 0;
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Db	85	MVSKGELFTGVVPILVELDGDVNGHKFVS	GEGEDGATYGKLT	KFTCTTGKLPVPWPT 144
QY	61	LVTVLSYGVQCFSRYPDHMKQHDFFKSA	MEGYVQERTIFFKDG	DNKYKTRAEVKFEGDGL 120
Db	145	LVTTLTGVQCFSRYPDHMKQHDFFKSA	MEGYVQERTIFFKDG	DNKYKTRAEVKFEGDGL 204
QY	121	VNRIELKGIDFKEDGNILGHKLKY	YNYNHNVYIMADKK	KGIKVNFIRHNIEDGSVOLA 180
Db	205	VNRIELKGIDFKEDGNILGHKLKY	YNYNHNVYIMADKK	KGIKVNFIRHNIEDGSVOLA 264
QY	181	DHYQONTPIGDGPVLLPDNHYLSTQ	SALSKDPNEKRDHMLXG	FVPTAAGITLGMDELYK 239
Db	265	DHYQONTPIGDGPVLLPDNHYLSTQ	SALSKDPNEKRDHMLXG	FVPTAAGITLGMDELYK 323

RESULT 13

US-03-602-641-21
; Sequence 21, Application US/09602641
; Patent No. 6608189

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; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Llopis, Juan
; APPLICANT: Wachter, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; FILE REFERENCE: 07257/071001
; CURRENT APPLICATION NUMBER: US/09/602,641
; PRIOR FILING DATE: 2000-06-22
; CURRENT APPLICATION NUMBER: 09/172,063
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Aequorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: GT-EGFP
US-09-602-641-21

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RESULT 14

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US-09-085-305-6
; Sequence 6, Application US/09085305
; Patent No. 6191269
; GENERAL INFORMATION:
; APPLICANT: Pollock, Allan
; APPLICANT: Lovett, David H.
; APPLICANT: Turck, Johanna
; TITLE OF INVENTION: Selective Induction of Apoptosis in
; TITLE OF INVENTION: Malignant Cancer Cells by Delivery of N-Terminal
; TITLE OF INVENTION: Interleukin-1-Alpha Pro-Piece Polypeptide
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bozicevic & Reed, LLP
; STREET: 285 Hamilton Ave, Suite 200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,305
; FILING DATE: 29-MAY-1998

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CLASSIFICATION: 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 180
PRIOR APPLICATION DATA: 261 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 320
APPLICATION NUMBER: 181 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
FILING DATE: 321 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 379
ATTORNEY/AGENT INFORMATION: 181 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
NAME: Francis, Carol L
REGISTRATION NUMBER: 36,513
REFERENCE/DOCKET NUMBER: 6510/102US1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3400
TELEFAX: 650-327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 364 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-085-305-6

Search completed: November 2, 2004, 13:11:16
Job time : 40 secs

Query Match 99.1%; Score 1256; DB 3; Length 364;
Best Local Similarity 98.3%; Pred. No. 2.2e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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DB 126 MVSKEELFTGVVPIVVELDGVNKGKFSVSGEGDATYKLTLEKFTCTTGKLPVWPPT 185
QY 61 LVTLXSVGQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNKTRAEVKFEGDTL 120
DB 186 LVTLTYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNKTRAEVKFEGDTL 245
QY 121 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 246 VNRIELKIDFKEDGNILGHKLEYNVSHNYIIVADKQNGIKVNFKIRHNIEDGSVOLA 305
QY 181 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
DB 306 DHYQONTPIGDPVLLPDNHYLSQSALSQKDPNEKRDHMLXGFTVTAAGITLGMDELYK 364

RESULT 15
US-09-417-197-129
Sequence 129, Application US/09417197
Patent No. 6518021
GENERAL INFORMATION:
APPLICANT: Ole Thastrup, et al.
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An
TITLE OF INVENTION: On A Cellular Response
FILE REFERENCE: 3759-0110P
CURRENT APPLICATION NUMBER: US/09/417,197
CURRENT FILING DATE: 1999-10-07
NUMBER OF SEQ ID NOS: 143
SOFTWARE: PatentIn version 3.0
SEQ ID NO 129
LENGTH: 379
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: actin-binding-domain-EGFP fusion
US-09-417-197-129

Query Match 99.1%; Score 1256; DB 4; Length 379;
Best Local Similarity 98.3%; Pred. No. 2.3e-123;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPIVVELDGVNKGKFSVSGEGDATYKLTLEKFTCTTGKLPVWPPT 60
DB 141 MVSKEELFTGVVPIVVELDGVNKGKFSVSGEGDATYKLTLEKFTCTTGKLPVWPPT 200
QY 61 LVTLXSVGQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNKTRAEVKFEGDTL 120
DB 201 LVTLTYGVQCFRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNKTRAEVKFEGDTL 260


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; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 1132
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Fusion between Aequorea victoria and human
US-10-257-909A-32

Query Match          100.0%; Score 1267; DB 14; Length 1132;
Best Local Similarity 99.2%; Pred. No. 2.3e-111;
Matches 237; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60
DB 894 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 953

QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120
DB 954 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 1013

QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 1014 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 1073

QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 1074 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 1132

RESULT 6
US-09-887-784-2
; Sequence 2, Application US/09887784
; Patent No. US20020177189A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, Sara et al
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: 3759-0115P
; CURRENT APPLICATION NUMBER: US/09/887,784
; CURRENT FILING DATE: 2001-06-19
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-887-784-2

Query Match          99.4%; Score 1259; DB 9; Length 239;
Best Local Similarity 98.7%; Pred. No. 1.6e-111;
Matches 236; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60

QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120

QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239

RESULT 7
US-10-296-953-2
; Sequence 2, Application US/10296953
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; Publication No. US20040072995A1
; GENERAL INFORMATION:
; APPLICANT: BJORN, SARA P.
; APPLICANT: PAGLIARO, LEN
; APPLICANT: THASTRUP, OLE
; TITLE OF INVENTION: NOVEL FLUORESCENT PROTEINS
; FILE REFERENCE: PLO095
; CURRENT APPLICATION NUMBER: US/10/296,953
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: PA 2000 00953
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 60/212,681
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: 60/290,170
; PRIOR FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: PA 2001 00739
; PRIOR FILING DATE: 2001-05-10
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-10-296-953-2

Query Match          99.4%; Score 1259; DB 15; Length 239;
Best Local Similarity 98.7%; Pred. No. 1.6e-111;
Matches 236; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60
DB 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60

QY 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEGDTL 120

QY 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKGIDFKEDGNILGHKLEYNNSHVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180

QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDMHVLXGFVTAAGITLGMDELYK 239

RESULT 8
US-09-920-922-2
; Sequence 2, Application US/09920922
; Patent No. US20020083488A1
; GENERAL INFORMATION:
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Sawano, Asako
; TITLE OF INVENTION: METHOD FOR MUTAGENESIS
; FILE REFERENCE: 11283-012001
; CURRENT APPLICATION NUMBER: US/09/920,922
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: JP 2000-237166
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-920-922-2

Query Match          99.1%; Score 1256; DB 9; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVDGVDVNGHKFVSVEGEGDATYGLTLKFKICTTGKLPVPWPT 60
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Db 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 9

US-09-999-745-4
; Sequence 4, Application US/09999745
; Patent No. US200201571140A1
; GENERAL INFORMATION:
; APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Baird, Geoffrey
; TITLE OF INVENTION: CIRCULARLY PERMUTED FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: REGEN1470-1
; CURRENT APPLICATION NUMBER: US/09/999,745
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/316,920
; PRIOR FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-999-745-4

Query Match 99.1%; Score 1256; DB 9; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Db 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239

RESULT 10

US-09-866-538-4
; Sequence 4, Application US/09866538
; Publication No. US20030032088A1
; GENERAL INFORMATION:
; APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
; APPLICANT: TSIEH, Roger
; APPLICANT: Campbell, Robert
; TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS
; FILE REFERENCE: REGEN1530-2
; CURRENT APPLICATION NUMBER: US/09/866,538
; CURRENT FILING DATE: 2001-05-24
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4

; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-866-538-4
Query Match 99.1%; Score 1256; DB 10; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Db 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
RESULT 11
US-09-797-496B-2
; Sequence 2, Application US/09797496B
; Publication No. US20030049597A1
; GENERAL INFORMATION:
; APPLICANT: Simon, Sanford M.
; APPLICANT: Chen, Yu
; TITLE OF INVENTION: Chimeric Fluorescent Enzymes and Uses Thereof
; FILE REFERENCE: 600-1-267
; CURRENT APPLICATION NUMBER: US/09/797,496B
; CURRENT FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Aequorea victoria green fluorescent protein modified as described
US-09-797-496B-2

Query Match 99.1%; Score 1256; DB 10; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Db 1 MVSKEELFTGVVPIVLVDGDNVNGHKFSVSGEGDATYGLTLKFKICTTGKLPVWPWT 60
Qy 61 LVTXLSYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Qy 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRLEKIDPFKEDGNILGHKLEYNYNHNVYIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLXGFTVTAAGITLGMDELYK 239
RESULT 12
US-09-794-308-4
; Sequence 4, Application US/09794308
; Publication No. US20030170911A1

GENERAL INFORMATION:
APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
APPLICANT: TSJEN, Roger
APPLICANT: ZACHARIAS, David
APPLICANT: BAIRD, Geoffrey
TITLE OF INVENTION: NON-OLIGOMERIZING FLUORESCENT PROTEINS
FILE REFERENCE: REGEN1530
CURRENT APPLICATION NUMBER: US/09/794,308
CURRENT FILING DATE: 2001-02-26
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 239
TYPE: PRT
ORGANISM: Aequorea victoria
US-09-794-308-4

Query Match 99.1%; Score 1256; DB 10; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 13
US-09-865-291-4
Sequence 4, Application US/09865291
Publication No. US20030186229A1
GENERAL INFORMATION:
APPLICANT: REGENTS OF THE UNIVERSITY OF CALIFORNIA
APPLICANT: TSJEN, Roger
APPLICANT: TING, Alice
APPLICANT: ZHANG, Jin
TITLE OF INVENTION: EMISSION RATIONETRIC INDICATORS OF PHOSPHORYLATION
FILE REFERENCE: REGEN1550
CURRENT APPLICATION NUMBER: US/09/865,291
CURRENT FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 239
TYPE: PRT
ORGANISM: Aequorea victoria
US-09-865-291-4

Query Match 99.1%; Score 1256; DB 10; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180

DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 14
US-10-121-258-13
Sequence 13, Application US/10121258
Publication No. US20030059835A1
GENERAL INFORMATION:
APPLICANT: Tsien, Roger
APPLICANT: Campbell, Robert
TITLE OF INVENTION: MONOMERIC AND DIMERIC FLUORESCENT
TITLE OF INVENTION: PROTEIN VARIANTS AND METHODS FOR MAKING SAME
FILE REFERENCE: UC083.1C2CPI
CURRENT APPLICATION NUMBER: US/10/121,258
CURRENT FILING DATE: 2002-04-10
PRIOR APPLICATION NUMBER: 09/794,308
PRIOR FILING DATE: 2001-02-26
PRIOR APPLICATION NUMBER: 09/866,538
PRIOR FILING DATE: 2001-05-24
NUMBER OF SEQ ID NOS: 78
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 239
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Enhanced Green Fluorescent Protein (EGFP)
US-10-121-258-13

Query Match 99.1%; Score 1256; DB 14; Length 239;
Best Local Similarity 98.3%; Pred. No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
DB 1 MVSKEELFTGVVPLVLDGVDVNGHKFSVSSEGEEDATYKGLTKFKICTTGKLPVWPPT 60
QY 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
DB 61 LVTLSYGVQCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
QY 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
DB 121 VNRIELKIDPKEDGNILGHKLEYNYNHSHVYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239
DB 181 DHYQONTPIGDPVLLPDNHYLSTQSALS KDPNEKRDMHVLKGFVTAAGITLGMDELK 239

RESULT 15
US-10-221-461-7
Sequence 7, Application US/10221461
Publication No. US20030092902A1
GENERAL INFORMATION:
APPLICANT: Marsh, Donald J.
TITLE OF INVENTION: MELANIN CONCENTRATING HORMONE RECEPTOR
TITLE OF INVENTION: CHIMERIC AND FUSION PROTEINS
FILE REFERENCE: 20652P
CURRENT APPLICATION NUMBER: US/10/221,461
CURRENT FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: PCT/US01/08071
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 60/189,698
PRIOR FILING DATE: 2000-03-15
NUMBER OF SEQ ID NOS: 37
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 239

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; TYPE: FRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: GFP derivative
US-10-221-461-7

Query Match      99.1%; Score 1256; DB 14; Length 239;
Best Local Similarity 98.3%; Pred.No. 3e-111;
Matches 235; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQGEKGDATYKGLTLKFKICTTGKLPVPWPT 60
Db 1 MVSKEELFTGVVPILVELDGDVNGHKFVSQGEKGDATYKGLTLKFKICTTGKLPVPWPT 60
Qy 61 LVTXLSTGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Db 61 LVTTLTYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
Qy 121 VNRIELKGIDPKEDGNILGHKLEYNNSHNYIIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRIELKGIDPKEDGNILGHKLEYNNSHNYIIMADKQNGIKVNFKIRHNIEDGSVOLA 180
Qy 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLXGFVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLXGFVTAAGITLGMDELYK 239
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Search completed: November 2, 2004, 13:21:36
Job time : 131 secs